

Cat 78

A. & J. MAIN & CO., LTD.

Manufacturers of

Hay and Grain Sheds

Implement Sheds

Dutch Barns

Granaries

Fold-Yard Coverings

Agricultural Roofing

Sheep and Cattle Sheds

Fencing and Gates

CLYDESDALE IRONWORKS
POSSILPARK, GLASGOW

Offices at LONDON . . . Australia House, Strand, W.C. 2
MANCHESTER 9 Albert Square
DUBLIN 11 Leinster Street
NEWCASTLE-ON-TYNE . 21 Grainger Street, West

List No. 271

Foreword

THE demand for ALL-STEEL SHEDS for agricultural purposes is increasing year by year. It is now generally recognised by agriculturists that much labour can be saved by the use of Hay and Grain Sheds, and the waste of hay, grain, and straw is reduced to a minimum by the use of these Sheds.

We have been the Pioneers in the manufacture of Hay Sheds with elevated trussing, which makes it possible to stack hay up to the **Roof Sheets**, and we have improved our designs from time to time.

The demand for FOLD-YARD COVERINGS has increased rapidly in the past few years, and where these Coverings have been erected, the increased value of the manure, and the saving of food and litter, have fully justified the outlay.

Where difficulties arise owing to nature of sites or requirements, we can arrange to inspect sites and submit designs and estimates for the best form of Shedding to suit the purpose intended.

When comparing our estimates with others, intending purchasers should remember that our Designs, Materials, and Workmanship are thoroughly reliable.

A. & J. MAIN & CO., LTD.

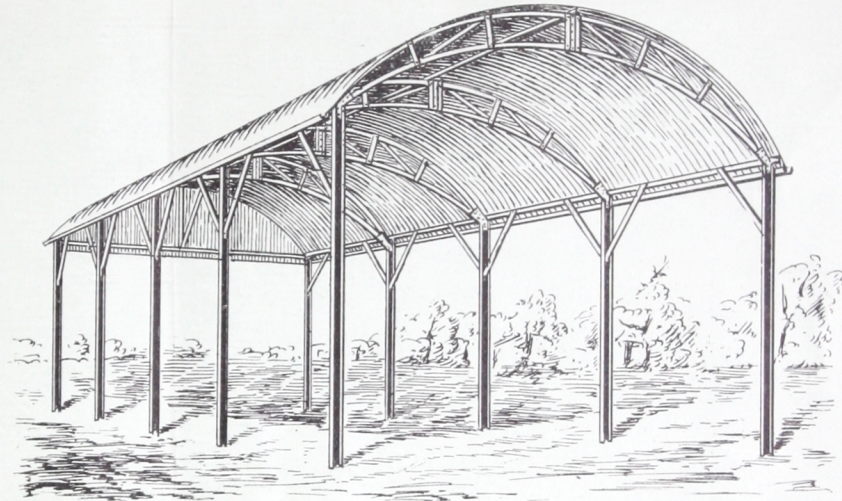
We also manufacture—

**All Classes of Continuous Bar and Wire Fences,
Railings, Hurdles, and Gates for Field or Entrance.**

SEPARATE CATALOGUES OF SAME AND QUOTATIONS SENT ON APPLICATION.

HAY, GRAIN, or STORAGE SHED

The Roof Framing in this and following designs allows clear head room close up to roof and dispenses with obstructive cross ties at eaves level, thus providing the greatest possible storage capacity. The Columns are Rolled Steel Girders, at 15 feet apart, with bases to fix in concrete. Where greater shelter is desired, one or both sides and ends are frequently sheeted down, say 6 feet, or to ground if desired.



Design No. 699

VENTILATORS and FILLING DOORS

A simple form of Ventilator can be provided in Roof or Ends at a small extra cost. Filling Doors can also be formed in end cleading, if required as shown on page 5.

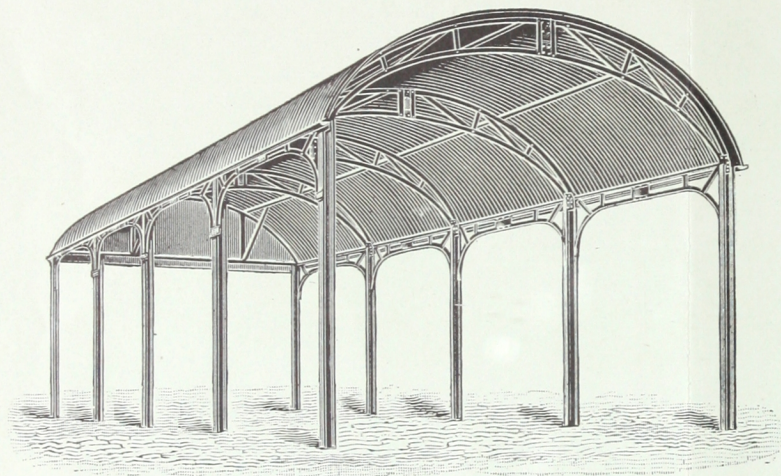
Hay Sheds are usually made in Standard Bays of 15 feet, the most common lengths being 30, 45, 60, 75, 90, 105, and 120 feet and upwards in multiples of 15 feet.

Standard Spans from 18, 20, 21, 22, 25, and 30 feet. Usual heights, 14, 16, 18, and 20 feet to eaves.

The widths and heights specified are those most commonly in use, and prompt delivery can usually be given for these sizes.

Other widths can be supplied.

A. & J. MAIN & CO., LTD.



Design No. 661

Hay Sheds are usually made in Standard Bays of 15 feet, the most common lengths being 30, 45, 60, 75, 90, 105, and 120 feet and upwards in multiples of 15 feet.

Standard Spans from 18, 20, 21, 22, 25, and 30 feet. Usual heights, 14, 16, 18, and 20 feet to eaves.

The widths and heights specified are those most commonly in use, and prompt delivery can usually be given for these sizes.

Other widths can be supplied.

HAY, GRAIN, or STORAGE SHED

Owing to the special construction of the Roof Framing, great stiffness is obtained with a minimum loss of space ; and owing to the construction of Eaves Girder, the full height is got from gutter to ground in the greater part of each bay.

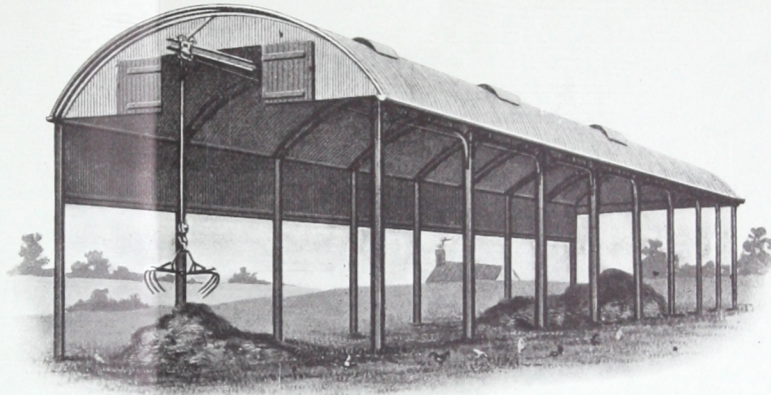
VENTILATORS and FILLING DOORS

A simple form of Ventilator can be provided in Roof or Ends at a small extra cost. Filling Doors can also be formed in end cladding, if required, as shown on opposite page.

HAY SHED with CARRIER and FORK

This illustration shows our Hay Sheds arranged to take a Transveyor or Hay Carrier. The Hay Carrier will be found to be of great advantage to the farmer, as the hay can be taken direct from the field in a rick lifter, and with the Transveyor can be taken to any part of the Shed, thus saving considerable labour in the filling of the barn.

If desired, Filling Doors can be fitted to any of the foregoing designs of Hay Sheds; and Ventilators, as shown on this design, can also be fitted.



Designs 699 and 661

Illustration **A** shows a **Swivel Carrier** which we have every confidence in recommending. It is strong and durable, simple in construction, and easily worked. The Carrier runs on a special rail fitted to roof trusses.

Figs. **B** and **C** show **Balance Grapple Fork**, open and closed. The Fork is constructed throughout of special steel, too stiff to bend, and too tough to break. It will handle any kind of hay or straw. Prices for **Rail, Hay Carrier and Fork**, and **Ropes complete**, will be quoted on application.

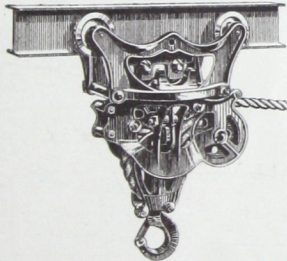


Fig. A—Carrier

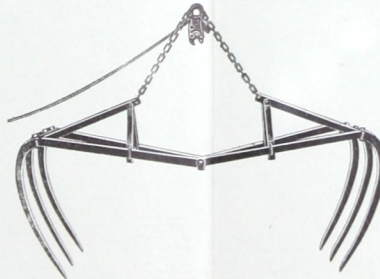
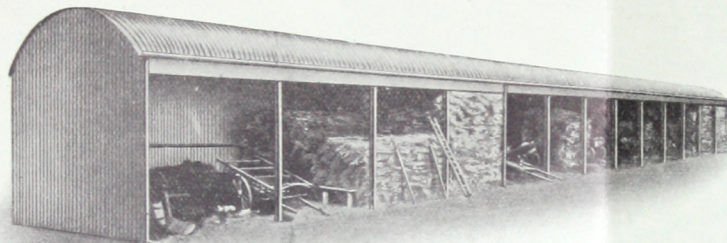


Fig. B—Fork Open



Fig. C—Fork Closed

A. & J. MAIN & CO., LTD.



Design No. 971 B

CART, IMPLEMENT, & STORAGE SHEDS

Design No. 971 B

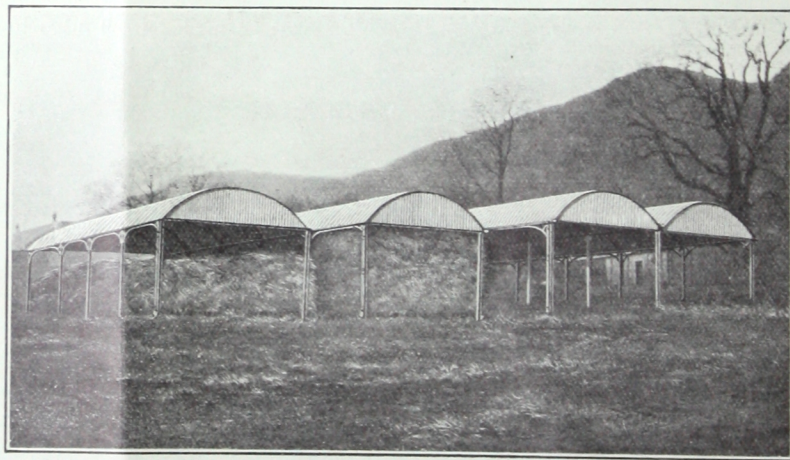
These Sheds are made in bays of 10, 12, and 15 feet in length. The standard widths are 18, 20, 22, 25, and 30 feet, and the height to eaves is usually 10 feet or 12 feet.

Design No. 661 D

This illustration is from a photograph of a range of Shedding erected for a landed proprietor in the Lorn district of Argyllshire.

The building consists of three spans 24 feet wide, and one span 22 feet wide, in bays of 15 feet. A portion of the Shed is used for storing hay and grain, and another portion of the building is set apart for the estate sawmill, the motive power of which is electricity.

Designs and estimates for similar buildings will be forwarded on receipt of dimensions and other necessary particulars.



Design No. 661 D

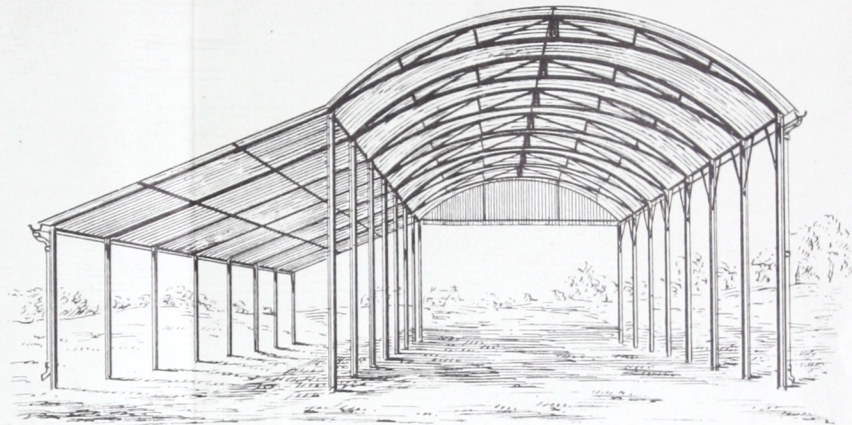
OPEN GRAIN or STORAGE SHEDS

Design No. 973 A

This illustrates a combination, many of which, of single, double, and triple spans, have been erected by us. The Lean-to Roof may be on one or both sides, and is most useful as a shelter for straw, carts, cattle, and a variety of other purposes.

The Lean-to can be sheeted at sides or ends, and can be fitted with doors and windows, as required.

When writing for prices, state total length and width of Building required, height to eaves of both Curved Roofs and Lean-to, width of Lean-to, and whether it is wanted at one or both sides.

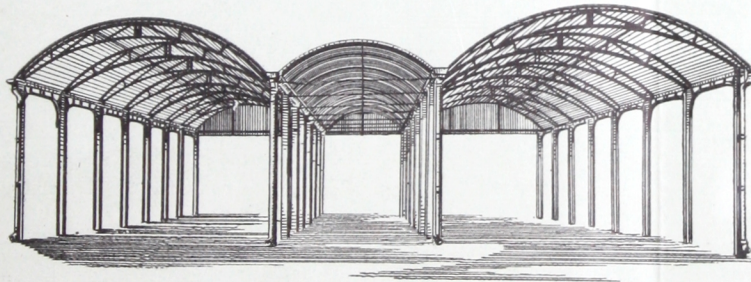


Design No. 973 A

Design No. 974

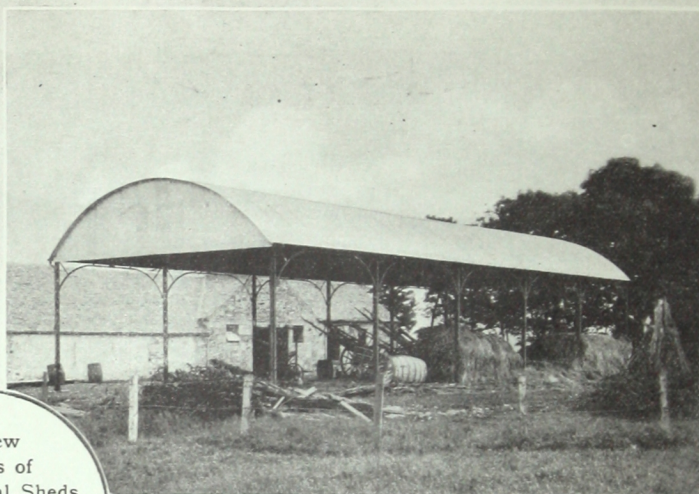
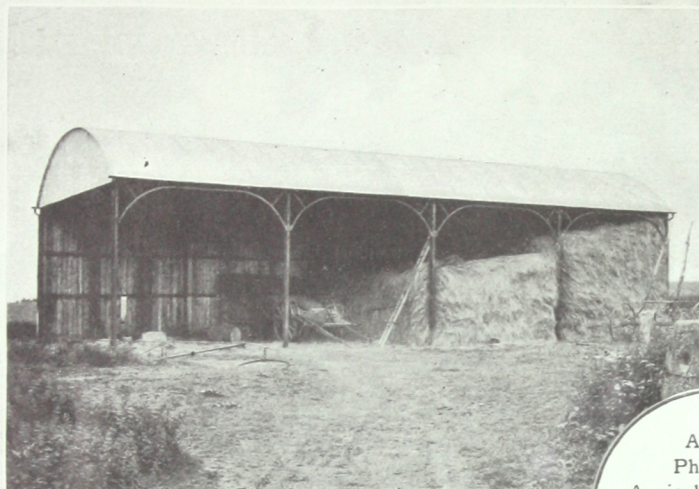
This illustration shows a combination of two Sheds running parallel to each other, with a covered way between, which can be any width ; and it is a most useful arrangement where a large extent of covered space is required. The Centre Span is valuable as a protection while loading or unloading grain or other produce.

The usual widths adopted for Outer Spans of this design are 20 to 25 feet, and Centre 12 to 15 feet. Other sizes can be adopted ; and when writing for prices, please state length of Shed and widths of Spans required.

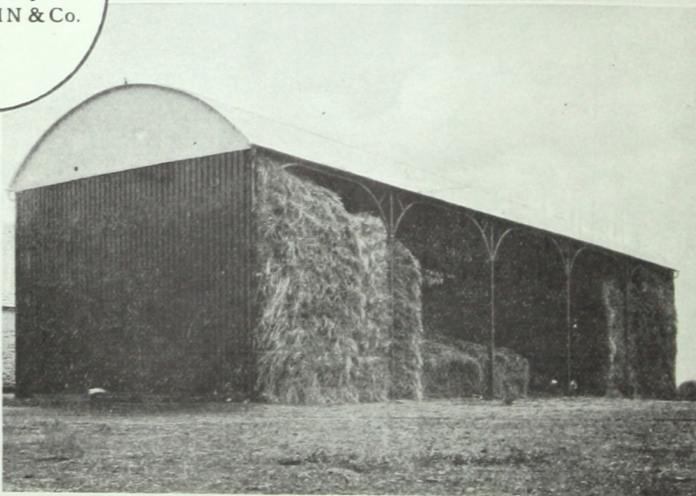
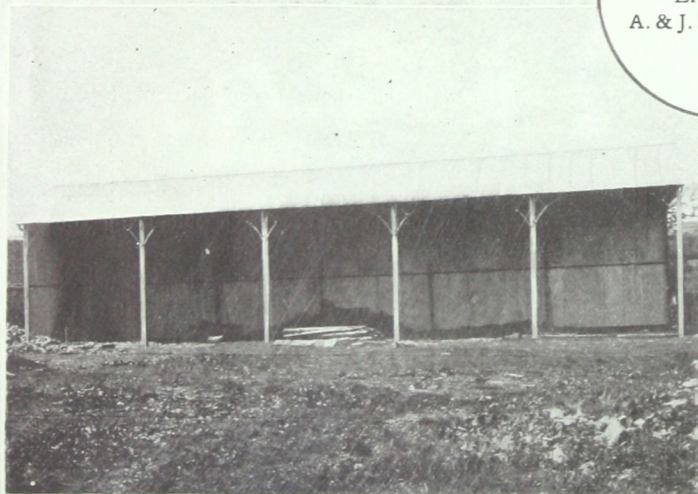


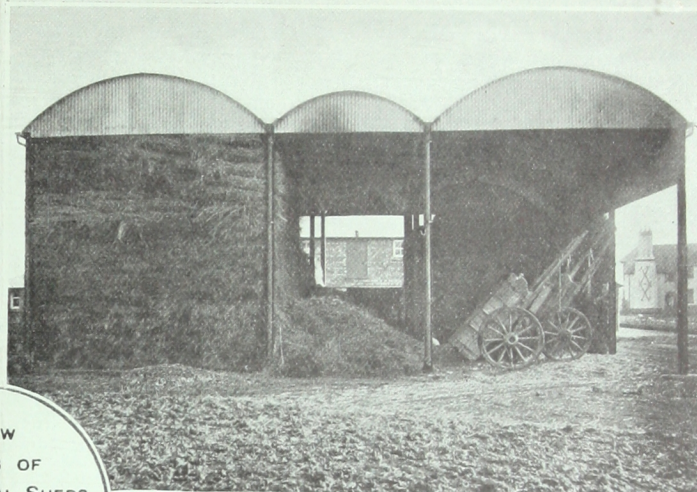
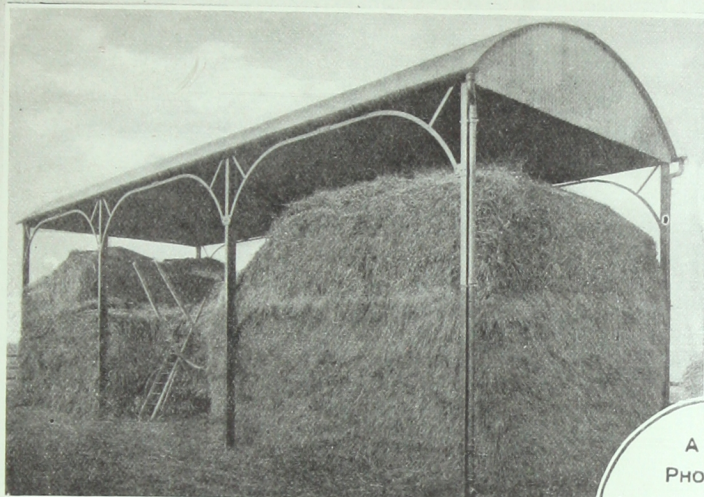
Design No. 974

Designs and Estimates forwarded on being favoured
with dimensions and other necessary particulars

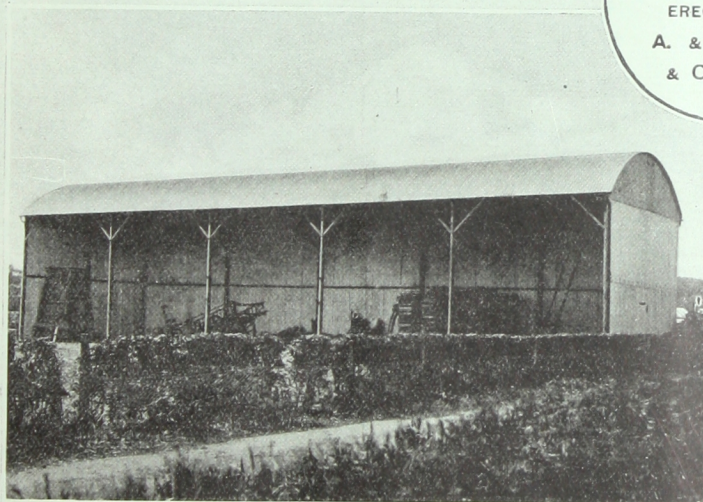


A Few
Photos of
Agricultural Sheds
Erected by
A. & J. MAIN & Co.
Ltd.

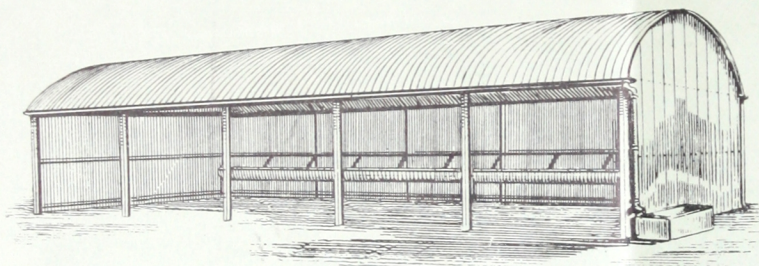




A FEW
PHOTOS OF
AGRICULTURAL SHEDS
ERECTED BY
A. & J. MAIN
& CO., LTD.



A. & J. MAIN & CO., LTD.



Design No. 971 A

SHEEP and CATTLE FEEDING SHEDS

Design No. 971 A

This Shed will be found very advantageous for placing in fields as a shelter for cattle, sheep, or young stock. The Framing is entirely of Steel. The roof, one side, and two ends are covered with best Galvanised Corrugated Sheets. It can be supplied with or without Iron Hay Rack; and if without the Hay Rack, it can be used as a Cart or Implement Shed.

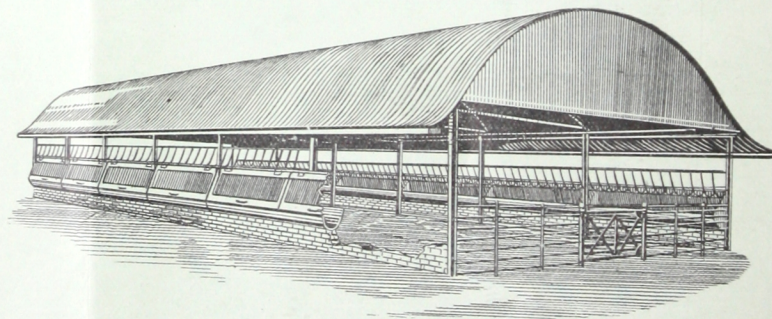
Prices will be quoted on receipt of particulars, giving length and width of Shed required.

Design No. 709 A

This illustration shows a very complete and economical design of Cattle Feeding Shed, with a range of Hay Racks and Troughs along both sides.

Different arrangements can be adopted for these structures, to suit the special requirements of clients.

The advantages of Cattle Feeding Sheds are year after year becoming more apparent to the agriculturist, and any farm where the rearing of cattle is adopted to any extent is incomplete without one of these structures



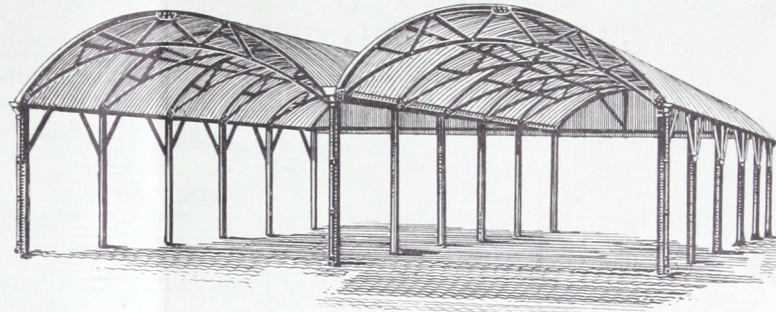
Design No. 709 A

OPEN GRAIN or STORAGE SHEDS

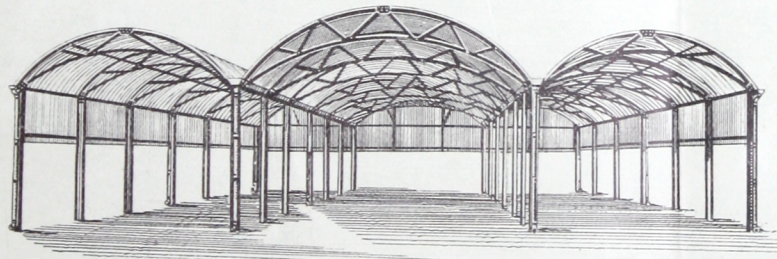
Design No. 991

This illustration shows Double Span Storage Shed. The design allows clear head room close up to roof. Sheeting may be added at sides and ends, as Design No. 992 below.

This design is usually made in widths of 25 to 30 feet. Other sizes can be supplied; when writing for prices, please give length of Sheds and width of Spans required.



Design No. 991



Design No. 992

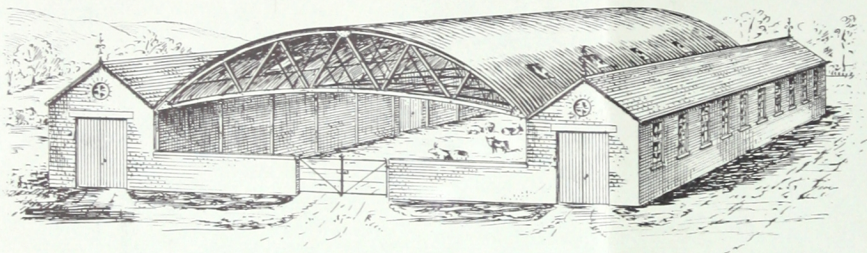
Design No. 992

Illustration shows Shed supplied to Transvaal Experimental Farms, Potchefstroom, for storage of Grain. Two Outer Spans, 22 feet wide; Centre Span, 30 feet wide; length, 90 feet; height to eaves, 18 feet. Columns in Rolled Steel at 15 feet apart. Any combination of Spans or dimensions quoted for on receipt of particulars.

Designs and Estimates forwarded on being favoured
with dimensions and other necessary particulars

A. & J. MAIN & CO., LTD.

CATTLE FEEDING SHEDS and FOLD-YARD COVERINGS



Design No. 655

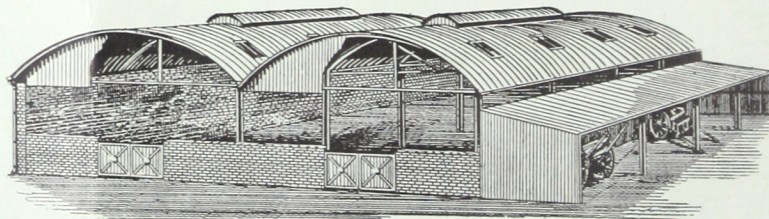
Design No. 655

This illustration shows a Single-span Curved Roof of wide span erected between existing buildings, and carried on iron columns fixed close to the walls of the side buildings. By this means the whole of the space in the courtyard is kept clear. The columns are frequently made higher than shown in this design, to allow for ventilation at the eaves.

The enhanced value of manure protected from the weather has been recognised by many prominent agriculturists, and the results obtained fully justify the outlay involved.

Design No. 3037 A

This shows a Double-span Fold-yard Roof adapted to a wide space where there is a suitable wall on one side only, the other side being carried on iron columns. The row of columns in centre afford convenient support for dividing the yard into two or more portions by timber divisions, while provision can be made for ventilation as shown, and sky-lights can be added on the roof if desired. The Lean-to will be found to be very convenient as a cart or implement shed.



Design No. 3037 A

MAIN'S ROOF and BARN PAINT

Mixed Ready for Use

FOR the preservation of Hay Sheds, Iron Structures, Wood Shedding, and Fences the question of painting is of great importance. The covering of Iron Structures with Oxide Iron Paint is by no means new, and, so far as is known, there exists no better material for their preservation if it is properly fixed to the surface of the work. This is done by using a reliable ferric oxide together with a medium, which, when applied, presents a hard and elastic surface. Such a medium is found in linseed oil, and when mixed in the right proportions with a properly ground and suitable oxide of iron paint, is the best possible protection for Iron and Steel Structures. Such paint will enter into, and fill up, the most minute irregularities on the surface of the metals, and will become almost a part of the structure to which it is applied, thus preventing corrosion.

Galvanised Corrugated Sheet Iron should not be painted immediately it is erected. It should be allowed to weather for six to twelve months before applying the first coat of paint—Red Oxide.

Price, in gallon tins, 14/- per gallon. Tins free. Carriage paid on 5 gallons.

Supplied in Red and Brown.

Specially suitable for Hay Sheds, Wood Shedding, Fences, etc.

A. & J. MAIN & CO., LTD.

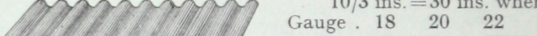
GALVANISED CORRUGATED SHEETS and FIXINGS

Weight per Sheet

Sheets are made 30 and 36 inches wide before Corrugation. After Corrugation, and allowing for overlaps at sides, they cover when fixed 24 and 30 inches respectively. The following is a list of Standard Sizes with approximate weight in lbs. per sheet.

8 3/4 ins. = 24 ins. when laid.

Gauge	18	20	22	24	lbs.
5 ft.	26	20	17	14	
6 "	31 1/4	24	20 1/4	16 1/2	
7 "	36 1/2	28	23	19	
8 "	41 1/2	32	26 3/4	22	
9 "	47	36	30	25	
10 "	52	40	34	28	

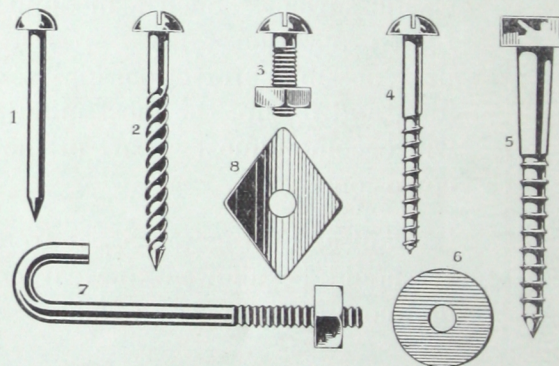


		10/3 ins. = 30 ins. when laid.			
Gauge		18	20	22	24
5 ft.		31	24	20½	16¾ lbs.
6	"	37½	29	24½	20
7	"	44	34	28½	23
8	"	50	38½	32	26½
9	"	56½	43	36	30
10	"	62½	48	40½	33½

Cost of Materials required, including Galvanised Bolts, Screws, Washers, Ridging, and Spouting (if required), estimated on receipt of dimensions of Building to be covered.

FITTINGS REQUIRED IN ERECTING GALVANISED SHEETS

No. 1.	Galvanised Cone Head Spike Nails, $2\frac{1}{2}$ ins.	per gross
" 2.	" " Driving Screws, $2\frac{1}{2}$ ins.	"
" 3.	" " Sheet-pile Bolts and Nuts, $\frac{3}{4}$ in.	"
" 4.	" " Cone Head Roofing Screws, $2\frac{1}{2}$ ins.	"
" 5.	" " Round Screws, $2\frac{1}{2}$ ins., and Washers	"
" 6.	" " Round Washers	"
" 7.	" " Hook Bolts and Nuts, $\left\{ \begin{array}{l} 3 \text{ ins. long} \\ \frac{5}{16} \text{ in. thick} \end{array} \right.$	"
" 8.	" " Curved Diamond Washers	"
Galvanised Cone Head Rivets		"



GALVANISED IRON PLAIN RIDGING



15-in. girth . . . per foot run.

GALVANISED CORRUGATED RIDGING



15-in. girth . . . per foot run.

Prices on application

A. & J. MAIN & CO., LTD.

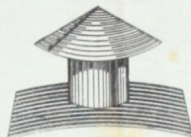
ROOF VENTILATORS



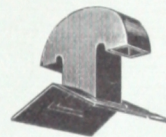
No. 6 A



No. 8



No. 7

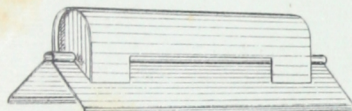


No. 00



No. 0

The above Ventilators can be readily attached to either Curved or Ridged Roofs and are absolutely weatherproof. They can be applied to existing buildings with very little alteration.



No. 9—"The Ridgevent"
Registered No. 645621.

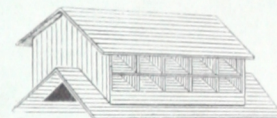
A simple and efficient Ventilator made to match ordinary Ridging 15 ins. girth. Easily fixed. Length of Opening, 30 ins.

Price

each

Prices—Cowl Ventilators

Diam. of Shaft	6	8	10	12	14	18	ins.
No. 6 A							
" 8							
" 7							
" 00							



No. 10

Ridged Ventilators

Length of Opening.
18 24 30 ins.

Price

each

Prices—Archimedean Ventilators

Diam. of Shaft	6	8	10	12	ins.
No. 0					

GALVANISED CORRUGATED ROOF LIGHTS

Being made of the same gauge, sizes, and corrugations as the ordinary Roofing Sheets, these Lights are as easily fixed as an ordinary sheet, without necessitating extra framing. The Sashes are made fixed, or to open for ventilation, as ordered.

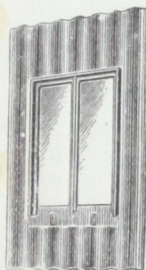
Prices in Sheets 2 ft. wide, or eight 3-in. Corrugations.

Gauge.	In Sheets.	5 ft. long.	6 ft. long.	7 ft. long.	8 ft. long.	9 ft. long.	10 ft. long.
24	Fixed. Opening.						
22	Fixed. Opening.						
20	Fixed. Opening.						

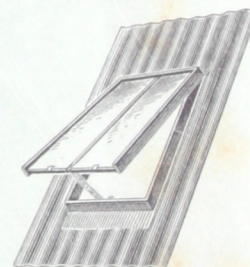
If Opening Roof Lights fitted with Guide and Pulley for Cord, at each extra.

Dimensions of Light . { Opening Roof Light, 36 x 18 ins. } Glass not included.
 { Fixed " 36 x 20 " }

Prices on application



Fixed Light.



Opening Light.

A. & J. MAIN & CO., LTD.

GALVANISED GUTTERS and DOWNPIPES

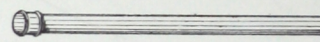
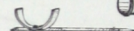
Extra Strong Wrought-iron
O.G. Gutters Half-round Gutters



All Galvanised. 3½ 4 4½ 5 inches.
Half-round, in 6-feet lengths . per lin. yd.
Elbows or Angles and Nozzles . each.
Galvanised "O.G." in 6-feet lengths . per lin. yd.

Gutter Brackets—Black, per dozen; Galvanised,

Downpipes and Connections



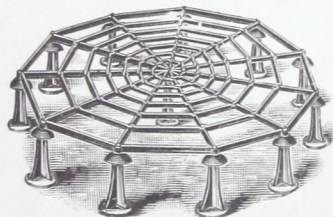
2½ 3 4 ins. diam.
Wrought-iron Pipes, in 6-feet lengths, Galvanised . each.
Wrought-iron Heads, Galvanised .
" Shoes .
" Gutter Bolts, per gross.

CAST-IRON GUTTERS, DOWNPIPES, and CONNECTIONS

All descriptions of Cast-iron Gutters and Downpipes can be supplied, and prices will be quoted on receipt of particulars and quantity. Special List sent on application.

PREMIUM CORN RICKSTANDS—Round and Oblong

IMPORTANT IMPROVEMENT.—This consists of larger and heavier Pillars, with Bases of considerably increased breadth, by which an important addition is made to the stability of the Rick. Notwithstanding the additional weight and strength thus given, the prices of the Stands have not been increased in any instance, and if this is taken into account our Rickstands are still the cheapest in the market.

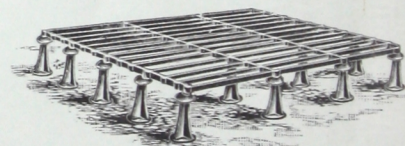


Sizes, Round

Diam.	Pillars.	Circulating Bars.
10 ft.	7	4
11 "	8	5
12 "	8	5
13 "	9	5
14 "	9	6
15 "	10	6
16 "	10	7
18 "	21	7

Sizes, Oblong

Length.	Width.	Pillars.
12 ft.	10 ft.	9
18 "	10 "	12
24 "	10 "	15
18 "	15 "	16
24 "	15 "	20
30 "	15 "	24
36 "	15 "	28
42 "	15 "	32



Prices will be quoted on receipt of size and number required.